

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P955265

Luminaire Tested: **GALN-SB8B-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35074 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

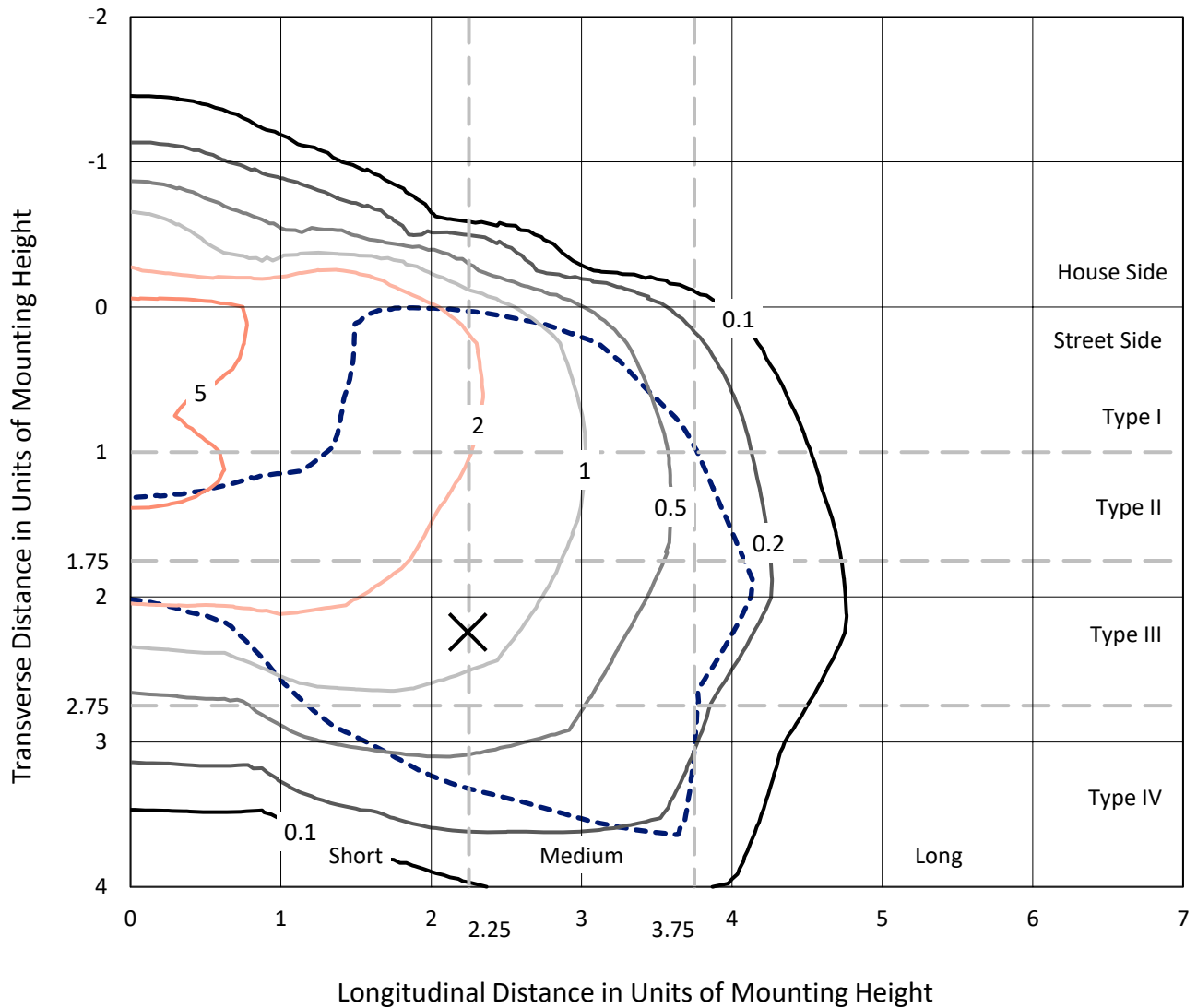
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

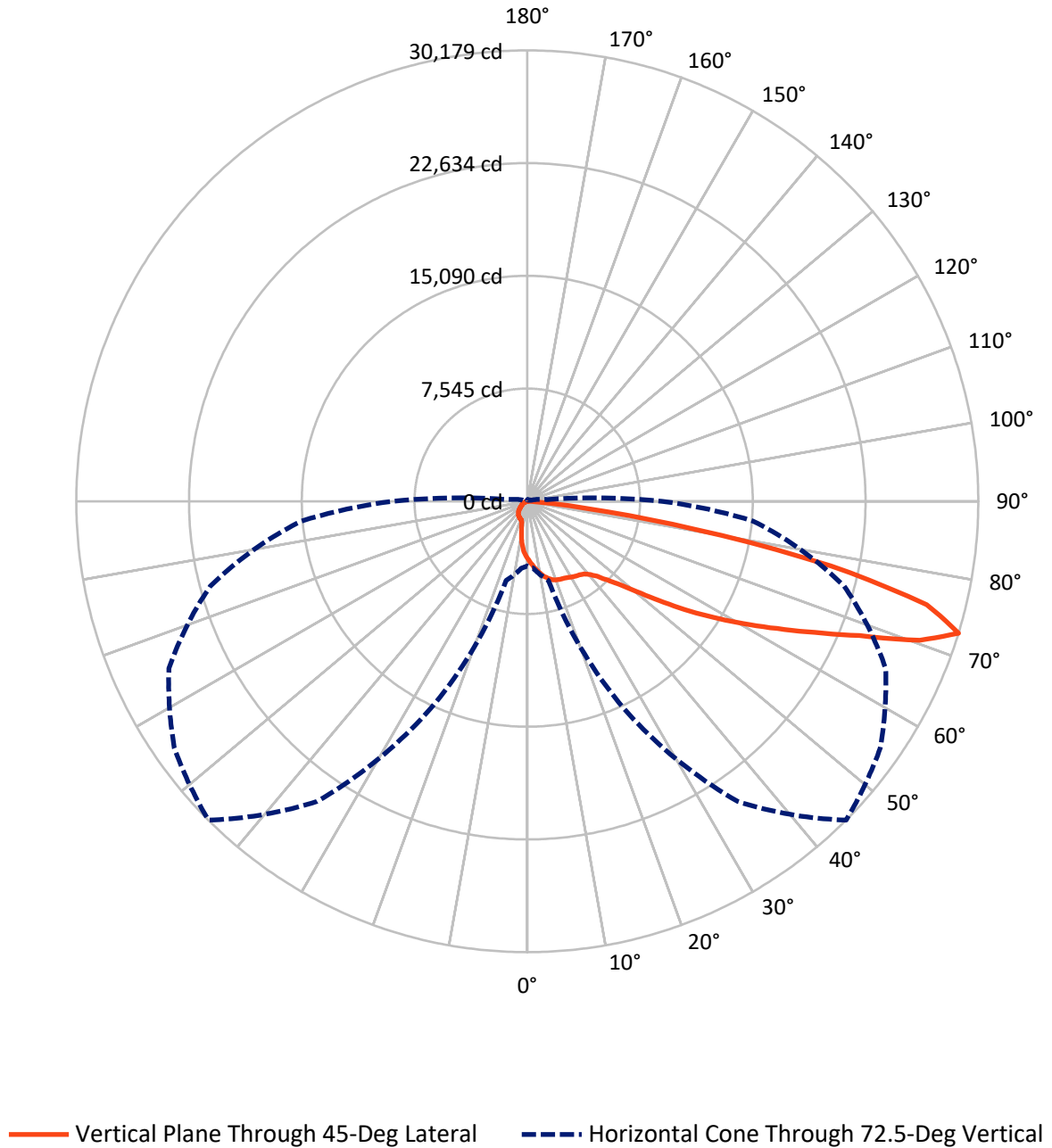
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3685.3	0.0	3685.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	31388.7	0.0	31388.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	35074.0	0.0	35074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.0	1.0
10°-20°	1058.1	3.0
20°-30°	1737.5	5.0
30°-40°	2464.2	7.0
40°-50°	4073.1	11.6
50°-60°	7316.8	20.9
60°-70°	10159.8	29.0
70°-80°	7369.6	21.0
80°-90°	532.8	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	35074.0	100.0
0°-180°	35074.0	100.0

Coefficient of Utilization



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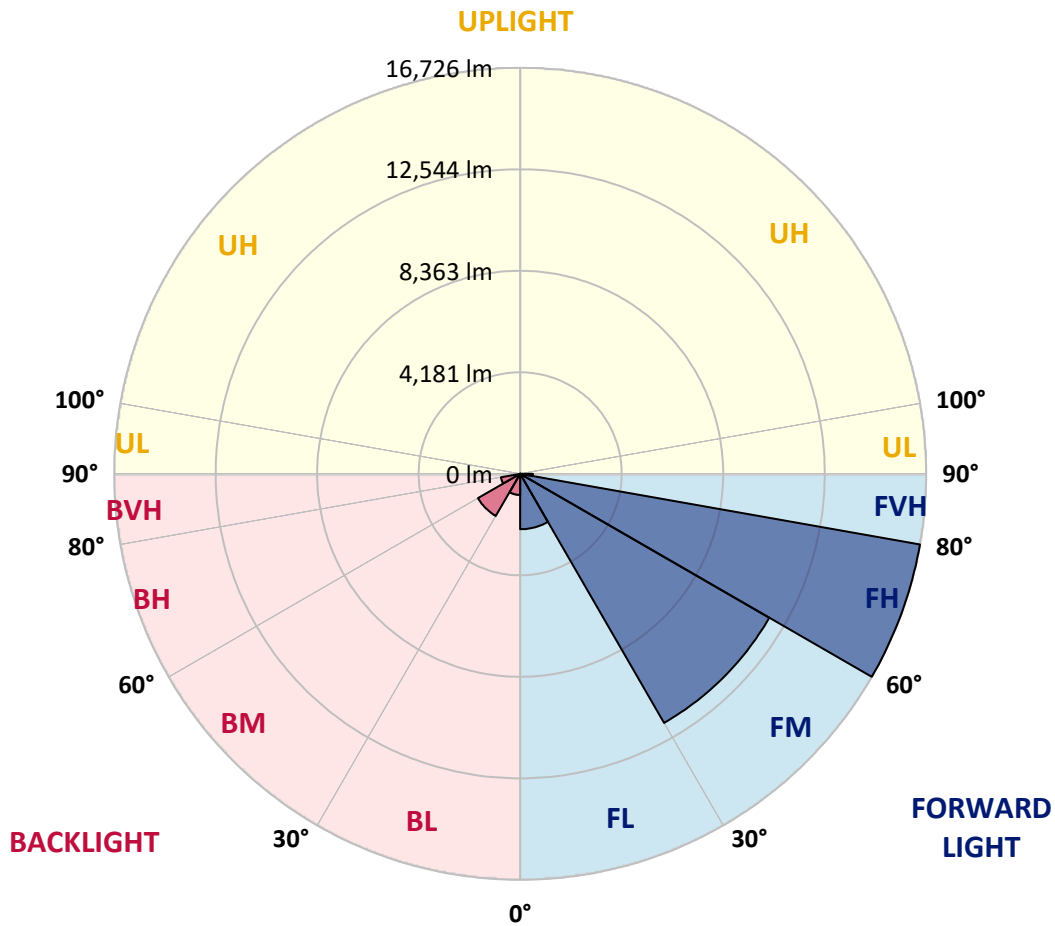
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2284.7	6.5			
FM (30°-60°)	11849.9	33.8			
FH (60°-80°)	16725.8	47.7			G5
FVH (80°-90°)	528.3	1.5			G4/750
BL (0°-30°)	872.9	2.5	B2/1000		
BM (30°-60°)	2004.3	5.7	B2/2500		
BH (60°-80°)	803.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3842.4	3842.4	3842.4	3842.4	3842.4	3842.4	3842.4	3842.4	3842.4	3842.4
2.5°	4196.7	4203.9	4199.1	4170.4	4122.5	4096.2	4081.8	4034.0	4002.8	3947.8
5°	4582.2	4610.9	4594.2	4536.7	4445.7	4381.1	4361.9	4263.8	4175.2	4072.3
7.5°	4991.6	5005.9	4974.8	4900.6	4778.5	4668.4	4651.6	4515.2	4373.9	4215.9
10°	5345.9	5362.6	5314.8	5207.0	5068.2	4931.7	4907.8	4757.0	4589.4	4395.5
12.5°	5642.7	5659.5	5597.3	5468.0	5314.8	5173.5	5149.6	4991.6	4807.2	4591.8
15°	5867.8	5898.9	5815.1	5676.3	5511.1	5369.8	5357.9	5202.2	5022.7	4783.3
17.5°	5999.5	6030.6	5951.6	5784.0	5642.7	5523.0	5508.7	5379.4	5211.8	4982.0
20°	6021.0	6049.7	5965.9	5819.9	5702.6	5606.8	5599.7	5506.3	5384.2	5163.9
22.5°	5956.4	5992.3	5915.7	5798.4	5717.0	5666.7	5657.1	5604.4	5535.0	5348.3
25°	5889.3	5918.1	5860.6	5757.7	5714.6	5709.8	5717.0	5707.4	5693.0	5535.0
27.5°	5884.5	5915.7	5851.0	5752.9	5728.9	5779.2	5786.4	5831.9	5843.8	5705.0
30°	5925.2	5946.8	5884.5	5781.6	5769.6	5884.5	5886.9	5968.3	5987.5	5848.6
32.5°	6013.8	6037.8	5975.5	5824.7	5807.9	5968.3	5975.5	6083.3	6114.4	6001.9
35°	6222.1	6250.8	6179.0	5944.4	5884.5	6047.3	6068.9	6195.8	6258.0	6164.6
37.5°	6741.6	6657.8	6559.7	6186.2	6059.3	6171.8	6207.7	6356.2	6466.3	6358.6
40°	8032.0	7768.7	7462.2	6598.0	6365.7	6437.6	6466.3	6614.7	6765.6	6660.2
42.5°	9968.8	9657.6	9164.4	7546.0	6827.8	6863.7	6885.3	7014.5	7227.6	7143.8
45°	11694.9	11582.4	11079.6	9164.4	7692.0	7514.9	7541.2	7608.3	7921.9	7890.7
47.5°	13021.2	12956.5	12568.7	11022.2	9152.4	8312.1	8386.3	8417.4	8869.9	8980.0
50°	14041.0	14017.1	13670.0	12674.0	11060.5	9487.6	9513.9	9446.9	10124.4	10397.3
52.5°	15003.4	15084.8	14828.7	14208.6	13097.8	11026.9	11022.2	10706.1	11620.7	12032.4
55°	15872.5	15901.2	15927.5	15774.3	15147.1	12779.4	12733.9	12216.8	13356.3	13782.5
57.5°	16688.8	16700.8	16935.4	17249.0	17280.2	14661.1	14577.3	13957.2	15252.4	15556.5
60°	17237.1	17292.1	17787.7	18659.1	19039.8	16602.7	16557.2	15925.1	17182.0	17323.3
62.5°	16447.0	16782.2	18031.9	19760.4	20701.2	18754.9	18733.3	18139.6	19212.2	19097.2
65°	13313.2	13880.6	16078.4	20504.9	22331.6	21158.5	21189.6	20557.6	21297.4	20923.9
67.5°	9312.8	9911.3	12511.2	20564.8	24153.5	23981.1	24160.6	23169.5	23511.8	22673.9
70°	6440.0	6748.8	8441.4	19276.8	25573.1	27869.0	27864.2	26377.5	25714.4	23471.2
72.5°	4330.8	4491.2	5482.3	15293.1	24529.3	30179.2	30040.4	28829.0	26456.5	21950.9
75°	1826.7	1944.0	2537.7	8594.6	19406.1	27610.4	27234.6	25477.4	23507.1	17285.0
77.5°	579.4	629.6	1000.7	3076.3	10689.4	20753.9	20356.5	15910.8	15755.2	8671.2
80°	275.3	320.8	562.6	1235.3	4206.3	11287.9	11232.8	7218.0	6777.5	2341.4
82.5°	119.7	141.2	311.2	660.8	1881.7	4026.8	4108.2	2456.3	2032.5	888.2
85°	38.3	50.3	143.6	304.0	794.8	1000.7	988.7	584.1	818.8	483.6
87.5°	0.0	0.0	47.9	69.4	81.4	57.5	64.6	50.3	227.4	134.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3842.4	0°	3842.4	3842.4	3842.4	3842.4	3842.4	3842.4	3842.4	3842.4	3842.4	3842.4
3890.3	2.5°	3861.6	3823.3	3756.2	3694.0	3638.9	3583.9	3550.4	3502.5	3497.7	3497.7
3952.6	5°	3887.9	3825.7	3706.0	3579.1	3433.1	3294.2	3155.3	3021.3	2978.2	2947.1
4053.1	7.5°	3964.5	3866.4	3677.2	3435.4	3157.7	2853.7	2640.6	2410.8	2322.2	2274.3
4187.2	10°	4074.7	3940.6	3653.3	3229.6	2779.5	2365.3	2061.3	1812.3	1716.5	1675.8
4333.2	12.5°	4196.7	4031.6	3610.2	2973.4	2365.3	1869.7	1572.9	1458.0	1443.6	1443.6
4508.0	15°	4342.8	4141.7	3536.0	2671.7	1932.0	1479.5	1374.2	1379.0	1393.3	1402.9
4678.0	17.5°	4493.6	4259.0	3418.7	2334.2	1548.9	1331.1	1333.5	1340.7	1352.6	1362.2
4862.3	20°	4656.4	4376.3	3263.1	1975.1	1328.7	1288.0	1295.2	1302.4	1311.9	1316.7
5034.7	22.5°	4831.2	4486.4	3078.7	1623.2	1254.5	1252.1	1254.5	1261.7	1273.6	1273.6
5235.8	25°	5017.9	4608.5	2868.1	1367.0	1216.2	1216.2	1221.0	1225.7	1235.3	1235.3
5429.7	27.5°	5209.4	4721.0	2645.4	1232.9	1182.7	1180.3	1180.3	1187.4	1192.2	1194.6
5621.2	30°	5420.1	4852.7	2422.8	1204.2	1156.3	1144.4	1137.2	1142.0	1146.7	1149.1
5822.3	32.5°	5635.6	4979.6	2224.1	1216.2	1130.0	1108.4	1084.5	1079.7	1079.7	1089.3
6030.6	35°	5875.0	5118.5	2070.8	1256.9	1115.6	1055.8	1017.5	995.9	998.3	1012.7
6279.6	37.5°	6162.3	5286.0	1958.3	1292.8	1106.0	995.9	933.7	907.3	890.6	907.3
6621.9	40°	6538.1	5532.6	1876.9	1321.5	1094.1	926.5	842.7	799.6	768.5	778.1
7153.4	42.5°	7091.1	5920.5	1845.8	1323.9	1067.7	845.1	749.3	691.9	646.4	648.8
7953.0	45°	7866.8	6533.3	2006.2	1292.8	1010.3	756.5	651.2	574.6	545.8	538.7
9147.6	47.5°	8929.8	7426.3	2377.3	1228.1	926.5	670.3	555.4	490.8	469.2	457.3
10715.7	50°	10354.2	8573.1	2789.1	1156.3	842.7	588.9	476.4	435.7	421.4	409.4
12575.9	52.5°	12006.1	9736.6	3126.6	1084.5	758.9	517.1	426.1	402.2	390.2	380.7
14371.4	55°	13521.5	10538.6	3107.5	1007.9	677.5	459.7	390.2	375.9	361.5	351.9
15918.0	57.5°	14464.8	10651.1	2561.6	924.1	584.1	414.2	356.7	347.1	330.4	318.4
17256.2	60°	14898.1	10009.5	1795.5	814.0	490.8	371.1	320.8	316.0	294.5	277.7
18522.7	62.5°	14977.1	8817.2	1197.0	677.5	409.4	330.4	284.9	277.7	249.0	220.3
19552.1	65°	14656.3	7112.7	828.3	529.1	349.5	287.3	244.2	229.8	198.7	170.0
19796.3	67.5°	13641.2	4994.0	577.0	380.7	296.9	227.4	193.9	189.1	165.2	141.2
18551.4	70°	11781.1	2846.5	385.4	284.9	234.6	155.6	153.2	158.0	134.1	114.9
15156.7	72.5°	9032.7	1302.4	239.4	208.3	160.4	105.3	122.1	124.5	102.9	86.2
9456.5	75°	5317.2	557.8	150.8	134.1	81.4	69.4	88.6	91.0	69.4	55.1
3457.0	77.5°	1809.9	210.7	95.8	79.0	40.7	38.3	57.5	57.5	38.3	21.5
694.3	80°	411.8	79.0	47.9	31.1	19.2	16.8	19.2	16.8	9.6	2.4
213.1	82.5°	117.3	31.1	19.2	12.0	7.2	7.2	2.4	0.0	0.0	0.0
74.2	85°	33.5	14.4	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0
26.3	87.5°	14.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
3842.4
3509.7
2961.4
2281.5
1675.8
1443.6
1402.9
1362.2
1319.1
1278.4
1237.7
1197.0
1153.9
1096.5
1019.9
902.6
773.3
639.2
529.1
450.1
407.0
378.3
347.1
316.0
272.9
205.9
160.4
134.1
105.3
76.6
47.9
16.8
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